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OFFICIALAmendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1. (Original) A method of performing a cyclic redundancy check calculation on a data stream composed of segments of data, comprising:

providing multiple cyclic redundancy check circuits, at least one cyclic redundancy check circuit able to perform the cyclic redundancy check calculation on a maximum amount of data and at least one cyclic redundancy check circuit able to perform the cyclic redundancy check calculation on a minimum amount of data, each cyclic redundancy check circuit capable of using prior cyclic redundancy check calculation results;

determining which of the multiple cyclic redundancy check circuits is appropriate for the segment of data to be processed;

processing the segment of data with the appropriate cyclic redundancy check circuit; and

repeating the steps of determining which redundancy check circuit is appropriate and processing the segment of data with the appropriate cyclic redundancy check circuit until there are no more segments of data to process.

2. (Original) The method of claim 1, wherein the method of performing a cyclic redundancy check calculation on data is used in an interface circuit board.

3. (Original) The method of claim 1, wherein the maximum amount of data is eight bytes of data.

4. (Original) The method of claim 3, wherein:

the multiple cyclic redundancy check circuits includes:

an eight byte cyclic redundancy check circuit;

a seven byte cyclic redundancy check circuit;

a six byte cyclic redundancy check circuit;

a five byte cyclic redundancy check circuit;

a four byte cyclic redundancy check circuit;

a three byte cyclic redundancy check circuit;

a two byte cyclic redundancy check circuit; and

a single byte cyclic redundancy check circuit.

5. (Original) The method of claim 1, wherein the cyclic redundancy check uses a CRC-32 generator polynomial for the cyclic redundancy check calculation.

6. - 10. (Canceled)